WILDERNESS AND BACKCOUNTRY MANAGEMENT PLAN

LASSEN VOLCANIC NATIONAL PARK

June **1994**

Submitted by:	Chief, Resources Management	Date6/3/94
Approved by:	Wilhert E. Bling Superintendent	Date <u>6/3/94</u>

TABLE OF CONTENTS

INTRODUCTION	. 2
VISITOR ACTIVITIES AND USE LIMITS	
Aircraft Boating	3 3 3 3 4 4 4 4 4 j j 5 j j j j
Crosscountry Skiers and Snowshoe Hikers MANAGEMENT OBJECTIVES AND RESPONSIBILITIES	5
Management Responsibility Blue Lake Canyon	- 6 6 6 7 7 7 7 7 8 8 8 8 9 9 9 9

INTRODUCTION

The objective of this plan is to establish current and long-range guidelines for active backcountry management in order to preserve the wilderness and to provide a quality experience to the visitor.

This objective will be accomplished through regulating travel, interpreting use, enforcing regulations and establishing priorities of necessary manpower and building needs to carry out the plan.

This plan is written within the guidelines of the 1964 Wilderness Act and existing legal and administrative policies, including the enabling legislation, management policies of the National Park Service, Code of Federal Regulations, Title 36, an act establishing the Lassen Volcanic wilderness areas (October 19721, Lassen Volcanic's management objectives and as directed by Western Regional Office memorandum, dated December 12, 1972. Following the 1992 use season, the plan will be revised in accordance with NPS 77 Natural Resources Management Guideline.

In the summer season of 1973, procedures were implemented for issuing wilderness permits for overnight stays, group size limitations, stock use, informational and regulatory signing at trailheads, trail improvement, research, restricted camping areas, winter use, interpretation, emergency procedures, firewood utilization, fire management and law enforcement.

It is impossible to control access at all of the points from which hikers enter the backcountry. However, a trailhead quota system may be necessary at the five major trailheads if monitoring and evaluation of use patterns and resource impacts indicate the need.

The plan will be reviewed regularly during the visitor use season and an annual review will be made by the Chief Naturalist, Chief Ranger, Chief of Resource Management, Facility Manager, District Rangers and Roads and Trails Foreman. The Chief of Resource Management will coordinate the review.

VISITOR ACTIVITIES AND USE LIMITS

- <u>Aircraft:</u> The National Park Service will permit the landing and air dropping of materials, supplies or persons only for fire suppression, rescue or other emergency situations, and for those activities necessary to meet the minimum requirements for administering the area for wilderness purposes when there is no acceptable alternative. Under these circumstances, permission may include:
 - 1. Transportation of personnel and supplies into the backcountry for maintenance or other administrative purposes.
 - 2. Removal of seriously injured or ill persons whenever use of ground transportation would aggravate the injury or disease, or when speed of evacuation is important.

Any aircraft wreckage shall be removed by the responsible agency or persons. If necessary, the National Park Service may supply employees and equipment to do this.

- Boating: The use of light boats, rubber rafts and canoes will be permitted in the backcountry. A personal flotation device is required for each occupant. No boat dock or any structure to accommodate boating may be built in the backcountry. The use of motors, including electric, is prohibited.
- Camping: To regulate overnight use, the park is divided, according to major drainage basins, into fourteen (14) Travel Zones. When funding and staffing are available for effective control, a carrying capacity for each zone will be established. In the meantime, camping will be permitted anywhere within a zone except in areas closed to camping and in certain heavy use areas where camping is limited to designated sites.
- <u>Camping</u>, <u>Size Limits</u>: A maximum of ten (10) persons will be allowed at any one site. Larger parties must divide into segments and camp at separate sites, and each camping segment must have a Wilderness Permit. Camping groups or segments must camp at least 300 feet from other camping groups or segments.
- Camping, Areas Closed: A significant number of areas have been closed to overnight camping due to the area's fragile nature, high visitor USE, past overuse or proximity to auto access. See Appendix B.

Camping is not permitted within 100 feet of the high water nark or in the open areas or grassy margins around lakes and streams or in meadows. Individual camping groups must be separated a minimum of 300 feet from other camping groups. (See also Camping, Size Limits above)

All, or portions, of the backcountry may be closed to camping or public use temporarily because of extreme fire danger or other hazards.

Camping. Length of Stav: Camping is limited to 14 days per year.

<u>Carrying Capacity</u>: Each of the 14 Travel Zones will be assigned a carrying capacity based on past and current user impact on the park's resources. That impact will be assessed by comparing data from wilderness permits with noted changes or damage to the physical and biotic environment. Until such time as sufficient data are available and an analysis is complete, use will be regulated by concentrating control efforts on areas where overuse is already being experienced. Specific controls might include limiting use to designated areas, adjusting party size and length of stay limitations and, when necessary, closure of the area.

Trail use may be controlled in the future by assigning seasonal personnel to regulate use during periods of high visitation.

Weapons: The possession of weapons or other weapons is prohibited.

<u>Open Fires:</u> Open wood fires are not permitted in the backcountry. Chemical fuel stoves may be used at all campsites.

<u>Fishing</u>: Fishing is allowed. A California State fishing license is required. To return fish populations to their natural state, fish stocking in the wilderness was discontinued in the summer of 1974. All regulations governing fishing in the park apply to the backcountry.

Grazing: Grazing of domestic cattle or other stock is not compatible with backcountry/wilderness philosophies. There will be no grazing permits issued. To control trespass grazing, drift fences will be encouraged as a cooperative effort between the Forest Service and its permittees. Patrols by Park Rangers will be intensified, and, where necessary, legal action will be taken to achieve satisfactory control.

Stock Use:

General Public

Due to the small size of the park and generally unacceptable locations for overnight use of riding and pack animals, no overnight stays will be permitted in the backcountry. A wilderness permit is required for day use when stock is used. Private stock owners may stable their animals in corrals at Butte, Juniper or Summit Lakes by contacting Park Headquarters, in advance, to reserve corral space. Pacific Crest Trail users with stock may use the corral near the north park boundary adjacent to the Pacific Crest Trail. Owners must supply their own feed and remove all residual feed when leaving. See Appendix C.

Stock is permitted on officially designated trails and is not to travel crosscountry. Stock is not permitted on the trails around Manzanita and Reflection Lakes, Lassen Peak, Bumpass Hell and Cinder Cone Trails or the trails within the Devils Kitchen and Sulphur Works Thermal Areas.

No more than fifteen (15) animals are permitted to enter the backcountry in a single group. No more than three (3) groups of fifteen (15) animals each or a total combination of forty-five (45) pack or saddle stock are permitted at one time. No more than seven (7) animals will be allowed at the corral at Summit Lake.

Trails will be closed to stock use when conditions warrant due to water accumulations, uncleared down trees and snowdrifts.

Concessioner, Warner Valley

Stock must be confined to the Drakesbad corral when not in use, Concessioner use of stock animals will be regulated as privately owned stock use. However, groups will be limited to ten (10) due to continuous use on local trails. No nore than one group of ten (10) will be permitted at one time. No overnight camping with concession stock is permitted.

Permit System Wilderness permits are required for all overnight stays in the backcountry. A visitor can camp either at a specific site (geographic place name) or a general area (travel zone). Most geographic features have a number of individual sites. Permits can be obtained in advance, by mail or telephone, or obtained in person at Park Headquarters in Mineral June to September, daily 6:00 am to 4:30 pm and October through May B:00 to 4:30 pm Monday through Friday; Manzanita Lake Loomis Visitor Center 9:00 am to 5:00 pm daily, July 1 through September 21 and weekends only June 30 to July 1 and Sept 5 to Sept 26; North District Ranger Station when Loomis is closed: Lassen National Forest Almanor District Office, 8:00 am to 4:30 pm yearlong Monday through Saturday.

Pets: Dogs, cats and other pets are prohibited in the backcountry.

Size of Hiking Groups: Maximum of 20 persons.

Sanitation, Pollution: All litter must be carried out of the backcountry.

Use of soaps and detergents directly in lakes and streams is prohibited.

"Cat-hole" latrines should be dug six to eight inches deep and no closer than 100 feet from the nearest surface water, intermittent stream course, campsite or trail. After use the hole and all waste must be completely covered with soil and tamped.

<u>Swimming:</u> Swimming is permitted in the backcountry.

<u>Winter Use:</u> Backcountry available for winter camping is more extensive than that for summer use. Areas closed to camping during the summer that can be used in winter are shown in Appendix D.

<u>Crosscountry Skiers and Snowshoe Hikers</u>: Overnight use will be by wilderness permit only. A portable stove with a self-contained source

of fuel may be used for cooking or warnth. All litter must be carried out.

Human waste must be buried at least 12 inches in the snow and no closer than 100 feet from any water source or public use facility.

Winter overnight backcountry sites must be at least one mile from any National Park Service public use facility or plowed road.

MANAGEMENT OBJECTIVES AND RESPONSIBILITIES

All divisions will have input and responsibilities regarding resource protection, maintenance and visitor management in the backcountry. Our overall responsibility will be to protect and to maintain the resources and to provide a quality experience for the visitor. A Standard Operating Procedure for backcountry operations has been adopted (Appendix H) and includes approved locations and times where backcountry permits are available, concise procedures for permit issuance and logging of permit data, and backcountry patrol procedures.

Management Responsibility: Responsibility for the management of the backcountry follows the park's organizational lines through each of the respective Division Chiefs. Close cooperation by the Division Chiefs is necessary to effectively carry out the provisions in the plan for. the management of backcountry use. The Chief of Resource Management is the plan coordinator.

Blue Lake Canyon: That portion of the Benner Creek Resources Management Unit north of the crest of Brokeoff Mountain is managed as 'Trail-less Wilderness.' The area has no designated nor maintained trails and access is gained via an unsurfaced remote road or cross-country over the Lassen Peak-Brokeoff Mountain crestline. Hiking or backpacking in this area is recommended for users experienced in orienteering and cross-country travel. Use by beginner or inexperienced backpackers is discouraged. Use by saddle or pack stock is not permitted because of the absence of designated trails.

Trails: Trails are provided in the backcountry to serve as a management tool to help control distribution and intensity of use and to avoid undesirable impacts on the environment. Also, the trails have been located to provide access to a representative sampling of the backcountry. Trail maintenance and construction will be according to standards defined in the NPS Trails Management Handbook. The program will be coordinated with the Chief of Resource Management. The trail work will be done with the minimum tools necessary. The decision to use notorized or mechanized equipment will be made only with prior approval of the Chief to Resource Management and will be limited to specific times, locations and projects. See Use of Motorized Equipment.

In addition to normal maintenance and construction, with the approval of the Chief of Resource Management and the appropriate archaeological authority, trail crews will be responsible for relocating trails where necessary and for obliteration of multiple and other unneeded trails. The restoration of backcountry areas by eliminating camping structures and fire rings will be accomplished as time permits.

- Pacific Crest Trail: This trail bisects the park form north to south. It enters from a point on the north boundary at Badger Flat near Hat Creek and exits on the south boundary below Little Willow Lake for a total of 17.4 miles. Both entrances on the trail are signed as a trailhead. The trail is marked periodically with the official trail tree-markers. Pacific Crest Trail users who camp overnight in the wilderness are required to have a wilderness permit. Lassen Park will honor other agency wilderness permits originating outside the park. Regardless of where the wilderness permit was obtained, park regulations will apply.
- Roads: The existing road to the Hat Creek inholdings will remain until all inholdings are in NPS ownership. Until that time, vehicle access will be limited to inholders.
- Backcountry Facilities: Mount Harkness Lookout and the cabins at Horseshoe and Lower Twin Lakes are the only administrative structures in the wilderness area. The Maintenance Division will be responsible for maintenance of the structures. Temporary trail crew campsites may be established when necessary, and they will contain only minimum facilities, such as toilet and animal-proof storage containers. All facilities will be removed when the site is no longer in use or before the end of the current use season.
- <u>Signing:</u> Yellow trail markers will be used to mark trails in the backcountry only when trails are not well-defined. Situations where trail markers may be used are:
 - 1. Trail definition is poor due to insufficient maintenance or other factors.
 - 2. Where confusion exists at trail junctions, particularly where multiple trails or old abandoned trails exist.
 - 3. Where there is confusion as to where the trail resumes on the other side of a meadow or stream

The approved directional sign will be routed in aluminum with 7/16" high letters and 2" \times 2" metal post. This type of sign will normally be used at trail junctions. The maintenance and placement of backcountry directional signs is the responsibility of the trail crew. Any regulatory signs will be the responsibility of the Protection Division.

<u>Sanitation:</u> All personnel are responsible for the collection and removal of refuse from the backcountry.

It will be park policy to utilize every means available to notify the public of the hazards of drinking unboiled water from lakes and streams.

- <u>Stock Use:</u> National Park Service horses and mules may be used to facilitate better backcountry coverage and to assist in maintenance and supply activities. National Park Service pack and riding stock will be fed in front-country corrals. Corrals located at ranger stations will be maintained by personnel assigned to the area.
- Interpretation: The Chief Park Naturalist will integrate programs of wilderness use and philosophy into evening programs and regularly scheduled interpretive walks. The guided walks and roving assignments in the backcountry interpret the natural and physical features to the visitors and advise them of proper backcountry use. They also inform visitors of backcountry regulations.

Interpretive personnel will keep informed of backcountry conditions, and are responsible for coordinating and distributing the weekly trail condition report in early summer. All personnel issuing wilderness permits will instruct those receiving the permits in proper backcountry use.

<u>Use of Motorized Equipment</u>: The use of motorized and mechanized equipment will be limited as follows:

- 1. Use of motorized equipment or mechanical transport, is not permitted by the public.
- 2. Administrative use of notorized equipment or mechanical transport, including notorboats, aircraft and chain saws, is permitted only as follows:
 - a. In emergency cases involving the health and safety of wilderness users or protection of wilderness values.
 - b. As necessary to meet the minimum needs of management to achieve the purpose of the area. (Specific approval of the Superintendent or the Chief of Resources Management is required for the non-emergency use of motorized or mechanical equipment.) Also see Trails.
- Resource Management: All activities affecting natural resources in the backcountry will be monitored by the Division of Resources Management. The Chief of Resources Management is responsible for making recommendations and any necessary plans for proper use and management of the backcountry. Implementation of resulting plans will be the responsibility of the appropriate park division.
- <u>Fire Management:</u> Fire is recognized as necessary in the maintenance of vegetation and natural biotic systems within the park. To meet the objectives of maintaining these natural systems, the park will utilize prescribed natural and management ignited prescribed fire within Designated Wilderness.

Park management recognizes the inherent public risk associated with the fire management program but will actively mitigate risk through an active public information program and enforce trail closures in areas of active prescribed natural fire. The Fire Management Officer, Chief Park Ranger, appropriate District Ranger and Public Information Officer will coordinate prescribed fire information and closure activities. Specific operational programs and responsibilities are outlined in the park Fire Management Plan.

- <u>Coordination with Forest Service</u>: The Forest Service no longer requires permits for overnight wilderness use, but they will issue permits for trips starting in the Caribou Wilderness and going into the park. A copy of this plan is given to Lassen National Forest Stations issuing wilderness permits.
- Research: Research which is funded by the National Park Service will be management oriented. Natural science research activities will be encouraged within the backcountry.
- <u>Information:</u> The public will be informed of the basic content of this plan. Interested groups and public agencies will be contacted and news articles written for news media for broad public coverage.

APPENDICES

- A Map, Trailheads
- **B** Areas Closed to Camping
- C Saddle and Pack Stock in Lassen Volcanic National Park
- D Issuing Wilderness Permits, Place Name Index
- E Backcountry Trails
- F Trail Inventory
- G Map, Lassen Volcanic Wilderness
- Ii Backcountry Standard Operating Procedures

APPENDIX B AREAS CLOSED TO CAMPING

	REASON FOR	REASON FOR
AREA	CLOSURE	AREA CLOSURE
Anklin Meadow	1	Hot Springs Creek
Bathtub Lake	1- 3	Devil's Kitchen to south
Boiling Springs Lake	1-2-3- 4	boundary
Bumpass Hell		Ink Lake1-2-4
Butte Lake		Inspiration Point1- 3
(except south end)	1	Juni per Lake
Cascade Springs	1	(except South end)
Cinder Cone	1-2-3-4	Kings Creek Falls1-2-3-4
Cliff Lake	1- 2	Kings Creek Meadows
Cold Boiling Lake	1-2-3	Upper and Lower1- 2
Cold Spring	1- 2	Lake Helen1- 3
Crunbaugh Lake	2	Lassen Peak Trail/Summit1-2-3-4
Crags Lake	3	Lily Pond 1 - 2 - 3 - 4
Crystal Lake	1- 3	Little Hot Springs Valley1-2
Dersch Meadows	1- 2	Little Willow Lake 2
Devastated Area		Lost Creek
Devils Kitchen		North of Park Road
Diamond Peak		Lost Creek Diversion Flume. 1
Dream Lake		Mbunt Harkness (summit)3- 4
Drakesbad		Manzani ta Creek
Dwarf Forest		(below bridge in S.29)1- 3
Echo Lake	1 - 3 - 5	Manzani ta Lake
Enerald Lake		Old Boundary Spring1-2-3
Emigrant Pass	1- 3	Reflection Lake
Hat Creek		Shadow Lake 1
East Fork	I	Soda Lake2- 4
West Fork between Park		Summit Lake 1
Road and Main Stem.	1	Sunflower Flat
Cabin Area		Terminal Geyser2- 4
Hat Lake		Terrace Lake1- 3
Henlock Lake	1	Warner Valley1
Hot Rock	I	

In addition to closures listed above for Hat Creek, that area in the Hat Creek basin east of the Hat Lake-Terrace Lake Trail and south of the Park Road is closed to camping because of the very extensive day use activities there.

Except for the upper Hat Creek basin, the areas named above are closed to camping for 1/4 mile in all directions from the feature named. Specific reasons for closure are shown by corresponding number.

1. The area is too close to autombile access or developed areas.

- The area is too fragile to sustain the impact of camping without damage 2. occurring.
- The area receives too high visitor day use to permit camping. Occupied campsites could reduce the amount of day use space or activities possible or seriously interfere with them

 Terrain and/or vegetation barriers do not allow room for suitable
- campsites.
- The area shows signs of deterioration due to overuse. 5.

SADDLE AND PACK STOCK USE IN LASSEN VOLCANIC NATIONAL PARK

Lassen Volcanic National Park offers 106,000 acres of high meadows and valleys, and 150 miles of trails including 17 miles of the Pacific Crest Trail. Over 100 miles of these trails are open to horseback riders. The following are regulations for saddle and pack animals used in all national parks as guidelines for the safety of visitors, riders and horses, and the protection of resources. For the purpose of these regulations the terms stock and pack animals refers to horses, mules, burros and llamas.

- 1. The use of horse or pack animals on trails, route or areas not designated for their use is prohibited. <u>Do not short cut on trails</u>,
- 2. The use of horse or other saddle and pack animals on paved roads is prohibited except where such travel is necessary for entry to or exit from the trails, or is incidental to authorized travel.
- 3. The free-trailing or loose-herding of horses and pack animals on trails is not allowed.
- 4. Horses and pack animals must proceed at a slow walk when passing the immediate vicinity of persons on foot.
- 5. The use of animals other than those usually designated as "pack animals" for purposes of riding or transporting of equipment is prohibited.

At Lassen volcanic National Park <u>these additional rules</u> were established to assure a quality experience for all backcountry visitors and to preserve the park wilderness for others to enjoy.

- 1. A <u>wilderness permit is REQUIRED</u> for all stock use. This permit is needed for all day use and is available at all Ranger Stations and information centers at no charge. We recommend calling Lassen Park Headquarters at 916-595-4444 to obtain a permit prior to your arrival.
- 2. Stock must travel on designated trails, as off-trail tracks are visible in the volcanic soils of the park for many years.
- 3. Due to the small size of the park and generally unacceptable locations for overnight use of riding and pack animals, <u>no overnight stays are</u> permitted in the backcountry.
- 4. Stock is not permitted on the trails around Manzanita and Reflection Lakes, the Lassen Peak Trail, the Bumpass Hell Trail from the parking area to Cold Boiling Lake, the Cinder Cone Trail, or the trails within the Devil's Kitchen and Sulphur works thermal areas.
- 5. Group size will be limited to a maximum of 15 animals.
- 6. Grazing of stock is not permitted.
- 7. <u>Do not tie stock to trees.</u> Animals pawing the soil away at the base of trees disturbs soil, damage roots and debarks trees.

- 8. When leaving stock for short periods of time, they must be tied to a high line near the trail. Tie the line between two trees or rocks and tether the animals to it. the line must be located on a flat, sparsely vegetated site to limit damage to roots and other plants, Do not picket stock in meadows.
- 9. In the backcountry, manure should be scattered and the area smoothed over. This speeds up the decay process and reduces odor and visual impact.
- 10. To protect water quality in the park, stock must be kept at least 100 feet from lakes and streams. In crossing streams, do not stop to water stock. They can be watered by carrying a collapsible pail from the water source to the animal.
- 11. Short-cutting trails and switchbacks is prohibited.
- 12. Trails will be closed to stock use when conditions warrant due to flooding, downed trees and snowdrifts.
- 13. Use processed grain or pellet feed with a nose bag to feed stock while on the trails. To prevent the introduction of non-native plants in the park, hay and seed type feed is not recommended but may be used in the park's corrals. All feed must be removed before leaving.

NOTE: Stock users may tether their animals overnight in stock holding areas at Butte, Summit, or Juniper Lakes by contacting Park Headquarters in advance to reserve tethering space. Ask for the stock tether reservation form

Have a safe and pleasant ride.

APPENDIX D - Page 1 ISSUING WILDERNESS PERMITS

The Wilderness Permit (Backcountry Use Permit Form 10-404) is used to gather statistical data for backcountry/wilderness use. Anyone wishing to stay overnight in the backcountry/wilderness is required to obtain a permit.

A permit will not be issued for day use unless stock is used.

Press firmly to ensure good copies,

- 1. Enter the person's name, street address, city and state. Enter Zip Code in Blocks 1-5. Use 99998 for foreign addresses and 99999 for Canadian addresses.
- 2. To Visit... enter Lassen Park. Leave Blocks 6-9 blank.
- 3. Start and Finish Dates...Give date the party will be entering and leaving the backcountry. Do not show nights spent in campgrounds at Manzanita Lake, Crags, Summit, Southwest, Butte Lake, Warner Valley or Juniper Lake Campgrounds when occurring at the beginning or end of the trip. Leave Blocks 10-17 blank.
- 4. <u>Location of Entry...</u> show the name of the trailhead. We will use the following:

Badger Flat (Hat Lake)
Brokeoff Mountain
Bumpass Hell
Butte Lake
Juniper Lake
Kings Creek Meadows
Kings Creek Picnic Area
Lassen Peak Parking Lot
Manzanita Lake
Leave Blocks 18-20 blank.

Pacific Crest Trail
(Show PCT North or PCT South)
Sulphur Works
Southwest Campground
Summit Lake
Warner Valley
Hat Lake (South of Park Road)
Terrace Lake
Other

- <u>Location of Exit</u>... enter the name of the trailhead as shown in Number 4.

 Leave Blocks 21-23 blank.
- 6. <u>Primary Method of Travel...</u> write in one of the following: Foot (for hikers), Horse (for riding), Ski or Snowshoe. Leave Blocks 24-25 blank.
- 7. <u>Number of People in Group...show actual number in party.</u> Leave Blocks 26-27 blank.
- 8. <u>Number of Pack or Saddle Stock...Show</u> number of animals including horses, mules, burros and other animals used for packing or riding, Leave Blocks 28-29 blank.
- 9. <u>Number of Watercraft.</u>..show number and type of watercraft, i.e., 1 canoe, 1 raft. Leave Blocks 30-31 blank.

APPENDIX 0 - Page 2

10. <u>Campsite Name...</u> show campsite name or travel zone and the nights spent. Nights spent at designated campgrounds are shown only when they occur in the middle of the trip, <u>NOT</u> at the beginning or end. <u>Leave Zone-Site</u> column blank.

The following are geographic place names on which we want to obtain more detailed use data. When a visitor tells you they will be camping at one of them, be sure you enter this name under Campsite Name.

Big Bear Lake Blue Lake Bluff Lake **Butte Lake, South End** Cluster Lakes Conard Lake Corral Meadow Crater Butte Crescent Crater Deer Lake Drake Lake East Lake **Emigrant Lake** Feather lake Forest Lake Grassy Swale Hidden Lake

Horseshoe Lake Indian Lake **Island Lake** Jakey Lake Little Bear Lake Ridge Lakes Rainbow Lake Sifford Lakes Silver Lake Snag Lake Soap Lake Swan Lake Teal Lake Twin Lakes Twin Meadows Widow Lake

The Campsite Name for visitors camping in other than these location will be the Travel Zone Name. (See Travel Zone map.)

- 11. Remarks.. enter vehicle make, model, year, color and license number. The two lines just above the Remarks line may be used if more room is needed. Leave Blocks 77-78 blank.
- 12. Date and have visitor sign after directing their attention to the list of backcountry regulations attached to the back of the permit.
- 13. Date and sign permit. Give visitor their copy and ask them to fasten it to their backpack, saddle or tent. Also give them a copy of the park newspaper and a litter bag.

APPENDIX D - Page 3 AREAS CLOSED IN SUMMER WHICH CAN BE USED IN WINTER

Anklin Meadow

Bathtub Lake Butte Lake

Cascade Springs
Cinder Cone
Cliff Lake
Cold Boiling Lake
Cold Spring
Crunbaugh Lake

Dersch Meadows
Devastated Area
Diamond Peak
Drakesbad
Dream Lake
Dwarf Forest

Crystal Lake

Echo Lake Enerald Lake Enigrant Pass

Hat Creek: Cabin Area

East Fork

West Fork between park road and Main Stem

Hat Lake
Hemlock Lake
Hot Rock
Hot Springs Creek
(below Devil's Kitchen)

Inspiration Lake

Juni per Lake

Kings Creek: Picnic Area

Falls

Upper/Lower Meadows

Lake Helen Lassen Peak Lost Creek

Lost Creek Diversion Flume

Manzanita Creek (Sections 20 & 29) Mount Harkness

Old Boundary Spring

Shadow Lake Ski Heil Peak Summit Lake Sunflower Flat

Table Mountain Terrace Lake

Warner Valley

APPENDIX F - Page 1 TRAIL INVENTORY

1.	Lassen Peak	Parking area - Summit	2.5
2.	Bumpass Hell	Trailhead - Cold Boiling Lake	3.1
3.	Bumpass Hell Loop	Within thermal area	. 4
4.	Cold Boiling Lake	Park road - Cold Boiling Lake	
5.	Twin Meadows	Jct. 4 - South Boundary	2::
6.	Mill Creek Falls	Ski area - Cold Boiling Lake	4. 4
7.	Brokeoff Mountain	Trailhead - Summit	3. 7
8.	Ri dge Lakes	Sulphur Works - Ridge Lakes	1.0
9.	Shadow Lake	Park road near Low Gap - park road near Sum	ni t
		Ranger Station	3. 7
10.	Hat Creek	Jct. 9 - Hat Lake	2. 7
11.	Badger Flat	End of Badger Flat	3. 0
12.	PCT North	Jct. 11 - north boundary	. 3
13.	Cluster Lake	Badger Flat - Jct. 14/15	2. 6
14.	Feather Lake	Jct. 13/15 - Jct. 16	2. 0
15.	Bear Lake	Jct. 16 - Cluster Lake	3. 3
16.	Twin Lakes	Summit R. S Emigrant Trail (via east shor	e
		Lower Twin and old road)	7.8
17.	Twin Lake-West Shore	Jct. 16 on both ends of Lower Twin	.5
18.	Sumit Lake Loop	Circles lake	.7
19.	Sumit Creek	Sunnit Lake - Kings Creek	1. 7
20.	Kings Creek	Park Road - south boundary	8. 0
21.	Cascade Foot	Jet. 20 above and below Cascades	. 2
22.	Bench Lake	Jct. 22/25 - Kings Creek Falls	1. 0
23.	Sifford	Jct. 2 0 - Jct 23/25	1. 5
24.	Sifford Lake Spur	Jct. 23 - Sifford Lake	. 4
25.	Flatiron Ridge	Jct.22/23 - Jct 20 near Corral Meadows	2.8
26 .	Warner Valley	Jct. 25 - Warner Valley Campground	1.0
27.	Devils Kitchen	Picnic area (1/4 mi W W Cgrd.) - Devils	
		Kitchen	2. 1
28.	Drake Lake Cutoff	Jct. 27 - Jct 29	. 4
29.	Drake Lake	Jct. 30 - south boundary (via Drake Lake)	3.6
30.	Terminal Geyser	Jet. 27 - south boundary (via Terminal	
	10111111	Geyser)	3. 1
31.	Terminal Gevser Bridle	Jct. 30 at Boiling Springs Lake and near	
02.	10111111	Terninal Geyser	1.5
32.	Boiling Springs Lake		
02.	Circuit	Circles lake	. 6
33.	PCT South	Jct. 30 - South Boundary near Little Willow	
	101 Bouten	Lake	1. 2
34.	Crystal Lake	Juni per Lake Road - Crystal Lake	. 4
35.	Juni per South	Juni per Lake Campground -Jct.37/39	1.8
36.	Harkness East	Juni per Lake Campground - Mr. Harkness L. O.	1. 9
37.	Harkness West	Warner Valley Road -Jct. 36	3. 7
38 .	Juni per West	Jct. 39 - Inholding road	1.1
39.	Indian Lake	Jct. 37/35 - Jct. 5 0	3. 0
40 .	Crater Butte	Horseshoe Lake R. SJct. 41	2. 1
41.	Grassy Swale	Corral Meadows - Crater Butte	3. 1
42.	Grassy Swale Cutoff	Jct. 41 - Jct. 43	1.3
43.	Swan Lake	Twin Lake -Jct. 41	.9
10.	STREET LICENCE		

APPENDIX F - Page 2

44.	Rai nbow Lake	Lower Twin - Jct. 5	3. 6
45 .	Snag West	Jct. 4 4 - Jct. 46/48	3. 5
46.	Snag East	Jct. 55/56 - Jct. 45/48	4. 6
47.	Rai nbow- Snag	Rainbow Lake - Snag Lake	1. 9
46.	Grassy Creek	Horseshoe R.SJct. 45/46 at south end of	
	Č	Snag Lake	2. 2
49 .	Caneron Meadow	Jct. 48 - Jct. 51	1. 2
50 .	Horseshoe Lake	Juni per Lake R. S Horseshoe Lake R. S.	1.4
51 .	Inspiration Point	Juniper Lake R.S Inspiration Point	. 6
52.	Snag- Juni per	Juniper Lake R.S Jct.46	2. 9
53.	Jakey Lake	Jct. 52 - Jakey Lake	1.5
54 .	East Boundary	Jakey Lake - Widow Lake	6. 0
55.	Wi dow Lake	Jct. 46/56 – Widow Lake	1.4
56 .	Butte Shore	Jct. 46/55 - Butte Lake R.S.	2.2
57.	Emi grant	Butte Lake R.S Badger Flat	6. 6
58.	Prospect Peak	Jct. 57 - Sunmit	2.8
59.	Cinder Cone North	Jct.57 - top of cone	. 3
60.	Cinder Cone South	Jct.44 - top of cone	. 6
61.	Bathtub Lakes	Jct. 56 - Bathtub Lakes	. 4
62 .	Manzani ta Creek	Park Road (via old cgrd. road) - Crescent	
		Cliffs	3. 9
63.	Chaos Crags	Park Road (via old cgrd. road) - Crags Lake	2. 1
64 .	Manzani ta Lake	Circles Lake	1.6
65.	Reflection Lake	Circles Lake	. 6
66.	Wi dow- Cari bou	Widow Lake to Caribou Wilderness Boundary	1.0

Total 145. 2

LASSEN VOLCANIC NATIONAL PARK BACK COUNTRY PERMIT INFORMATION

APPROVED PERMIT ISSUING LOCATIONS

- A. CHESTER RANGER STATION Monday through Saturday 8 A.M. to 4:30 P.M.
- B. NORTH PARK AREA
 - 1. Loomis Visitor Center Hours 9 to 5

Week ends only
June 30-July 1
September 5 to September 26

<u>Full time</u> July 1 to September 5

- 2. North District Ranger Station When Loomis is closed, if staffed. If not staffed refer to Chester or Mineral Headquarters.
- C. PARK HEADQUARTERS
 June through September
 8 A.M. to 4:30 P.M.

October Through May Monday through Friday 8 A.M. to 4:30 P.M.

Mail in requests should be sent to HEADQUARTERS ONLY. Address: P.O. Box 100, Mineral, Ca. 96063-100 Attn. Back Country Permits

No more than Ten (10) persons on a permit.

No more than Ten (10) persons in a campsite.

No more than Twenty (20) persons **Hiking** in a group.

Large groups must breakup into groups of no larger than Ten (10) persons and be a minimum of Three Hundred (300) feet apart.

ORIGINAL - TOVISITOR
WHITE - TO RESOURCES
PINK - TO DISPATCH

FILLING OUT WILDERNESS PERMITS (not to be used for vehicle campgrounds)

PLEASE PRESS HARD when filling out the form ; make sure ALL COPIES ARE LEGIBLE.

Please print all information in the highlighted areas.

In the zip code block use:

9998 for foreign addresses. 9999 for Canadian adresses.

IMPORTANT:

Indicate start and finish dates , total **number** of days in the backcountry, and the location **of** entrance and exit points. Also list the backcountry campsites and the dates for each campsite, in case au emergency contact needs to be made.

On the last two lines , in the campsite section, list the vehicle year, make, model, color, license number, as well as where it will be parked, in case we need to make an emergency contact.

For entry or exit use only the following TRAIL HEAD NAMES:

BROKEOFF
BUMPASS HELL
BUTTE LAKE
NAT LAKE
JUNIPER LAKE

KINGS CREEK MEADOW KINGS CREEK PICNIC AREA LASSEN PEAK PARKING LOT MANZANITA LAKE PACIFIC CREST TRAIL (indicate north or south) SOUTH WEST CAMPGROUND SUMMIT LAKE SULPHER WORKS WARNER VALLEY

FASTEN THIS TAG TO YOUR PACK, SADDLE, BOAT OR . ENT





When signed, this single-visit permit authorizes. NAME JOHN BACKPACKER			CAMPSITE NAME	ZONE— SITE	NIGHTS			
ADDRESS P.O. Box 37	7					6/01 Horseshoe		1
<u>s</u>	CA Z	9 6	10	6	3	6/02&03 Snag Lake		2
cmy Mineral	LA p		 入	ļ,	5	6/04 Horseshoe		11
To visit	XX		*	X_	\searrow	6/05 OUT		Ţ
	FR MO/	OM O	6	0	1		\./	
Give best estimate of start and finish dates	THRO	OUGH ()	6	0	13 5	1990 Blue Toyota		Ī
		DAY	1.5	16	17	CA 4L06006		'
Location of entry Juniper	Lake		X	X	\sum_{22}	Parked at Juniper Lk		1
Location of exit Juniper	Lake		X	X	X			Ť
Foo	t, Hors	se, Sk	i.	X	X			+-
Primary method of travel		Ϊ́	Ž	REMARKS				
			$\overline{\mathbf{x}}$	DATE (VISTOR'S SIGNATURE	JRE)	1 78		
Number of pack or saddle stock1-15				DATE ISSUING OFFICER'S SIGNAT				
Number of watercreft or other cref	. 1-10)		X	IŽ.	1/1 721 no Yearlessen		1 01

VERY IMPORTANT:

INFORM THE VISITOR THAT WHEN THEY SIGN THE PERMIT, THEY ARE RESPONSIBLE FOR UNDERSTANDING AND ABIDING BY THE REGULATIONS PRINTED ON THE PERMIT.

If a **livestock** permit is requested PLEASE contact PARK DISPATCH as there is a quota on **livestock** allowed in the **back** country.

DO NOT ISSUE ANY PERMITS FOR LIVESTOCK FROM YOUR LOCATION.

BACKCOUNTRY USE REGULATIONS AND INFORMATION FOR LASSEN VOLCANIC NATIONAL PARR.

THE FOLLOWING ARE PROHIBITED BY THE CODE OF FEDERAL REGULATIONS:

NO FIRES -USE ONLY PORTABLE STOVES	36CFR2.13
NO PETS ALLOWED IN THE BACK COUNTRY	36 CFR2.15
NO WEAPONS ALLOWED IN THE PARK	36 CFR 2.4
NO VEHICLES. INCLUDING BICYCLES. ALLOWED	36 CFR4.10
IN THE BACKCOUNTRY.OR ON ANY TRAILS.	36 CFR4.30
DO NOT USE METAL DETECTORS - LEAVE ALL NATURAL	36 CFR 2.1
AND CULTURAL FEATURES IN THE PARK UNDISTURBED.	

YOU MUST FOLLOW THE REGULATIONS FOR LOW IMPACT CAMPING WHICH INCLUDE, BUT ARE NOT LIMITED TO. THE FOLLOWING:

Camp a minimum of 100 feet from the $high\ water\ mark$ of any lake $or\ stream$.

Camp a minimum of 100 feet from any trail.

<u>DO NOT CAMP</u> in the OPEN AREAS OR GRASSY MARGINS AROUND LAKES , STREAMS OR IN THE MEADOWS.

Camp at least 300 feet from ANY OTHER PARTY.

Locate latrines at least 100 feet from ANY WATER SOURCE.

BURY WASTE a minimum of six inches , pack out your toilet paper, DO NOT burn or bury it.

Construct NO improvements such as shelters, drainage ditches around tents, rock walls, bough beds, etc.

Keep all waste products out of the water ways. This includes fish entrails, ALL SOAPS, (EVEN BIODEGRADEABLE SOAPS), detergents, waste water from dishes, etc.

ORGANIZED GROUPS : Only 10 persons per party. Each party must have a back country permit.

EACH PARTY MUST CAMP 300 FEET FROM ANY OTHER PARTY.

LIVESTOCK USERS: Livestock permits are required for all livestock use in the park, THIS INCLUDES DAY USE. Specific regulations for stock use are supplied with the stock use permit. Rules and regulations are printed on the back side of the visitors permit. WHEN THE VISITOR SIGNS THE PERMIT THEY ARE STATING THEY HAVE READ AND UNDERSTAND ALL THE REGULATIONS AND THEY WILL COMPLY WITH ALL THE REGULATIONS.

LASSEN VOLCANIC NATIONAL PARK Ranger Operating Procedure

Visitor and Resource Management Division

TITLE SUBJECT: Backcountry Patrol Procedures

OVERVIEW

Permanent and seasonal protection personnel, as well as N.P.S. non - commissioned personnel along with park volunteers, will conduct backcountry/wilderness patrol operations on an as needed/when available basis. Patrol operations will have three broad objectives;

- (1) Familiarize personnel to backcountry destinations, trail and camp site conditions, and gain an awareness of topography, distances, and the time it takes to reach destinations.
- (2) Establish a uniform presence, check compliance of backcountry regulations, distribute information concerning minimum impact camping, and detect conditions potentially hazardous to visitor safety.
- (3) Gather and record baseline date concerning resource damage and human caused impacts. Take appropriate mitigation measures with the resources you have at hand, i.e.; eradication of illegal fire rings, removal of down trees on trails, etc.

PROCEDURES

Before heading down a trail have a plan of operational objectives you and/or your supervisor want to accomplish. you will be held accountable for the backcountry objectives that you are assigned. A backcountry patrol **record** (amended 344) will be completed after each patrol. The case incident number will be 94-0062 for 1994.

Arrange the timing of your patrol to coincide with the heavy trail use periods (mornings or late evenings). Have an idea of how many overnight users will be in the area you choose as your destination.

This is a partial listing of primary responsibilities you have while on patrol;

- (1) Check all overnight user permits, reinforce minimum camping techniques and basic wilderness regulations.
- (2) Talk to and distribute information to as many day hikers as possible.

- (3) Note trail conditions and take corrective action if warranted and able.
- (4) Note possible SAR problems, and possible helispot locations, radio dead spots, and other emergency related items.
 - (5) Note campsite conditions and eradicate all fire rings.
- (6) Pick up all litter or man made objects/hazards such as wire that serves no purpose.
- (7) Note and report any sign or trail marker that mat cause confusion.
- (8) Clear any downed trees. If it requires tools or additional manpower, record specifically what is needed for future 'patrols.

ENFORCEMENT CONSIDERATIONS

Commissioned rangers will carry minimumdefensive equipment on a duty belt **or** within your patrol pack and citation book. **Take** action on all observable backcountry infractions using officer discretion (verbal/written warnings, citations) and document on back country patrol log. Note if regulatory signs are in place at the trail head before citations are issued.

SUGGESTED EQUIPMENT

- * Map and Compass
- * Basic first aid supplies
- Work gloves
- * Sun screen, Insect repellent
- * Knife, Matches
- * Trash bags
- * Flagging
- Extra food and water
- Flashlight/ head lamp

RADIO PROCEDURES

All employees will carry a radio with them while on a scheduled backcountry patrol. All employees should carry a charged extra battery in addition to their primary battery. The radio should be monitored at all times you are on shift during a scheduled day patrol. During multi-day/overnight patrols the radio can be used in the following manner to conserve batteries.

0800 to 0830 check in with 700 (or designee) for status check

1200 to 1230 monitor for messages

1600 to 1630 monitor for messages

2000 to 2030 check in with 700 (or designee) for status check

BACKCOUNTRY PATROL FORM INSTRUCTIONS

DRAFT

Fill in:

USE CASE NUMBER 94-0062

Trail and route patrolled Number of day users
Date and Time blocks Number of over night users
Type of patrol Number of livestock users

TRAIL CONDITIONS:

Give specific trail conditions using topo map locations, list any fallen trees by location and diameter, so the trail crew will know what tools they will need to remove the hazard.

A Xerox copy of a topo map is a good thing to take with you to record needed work. Indicate on the map what type of work needs to be done, such as hazards, repair work to infrastructure, water bars, erosion control, etc.

CAMPSITE CONDITIONS:

Note any resource damage in the campsite area such as trampled vegetation, social trails, heavily impacted soil, defaced vegetation, fire rings, trash, etc.

Mitigate damages you can, by picking up trash and rehabing **fire** rings.

WORK ACCOMPLISHED:

List all work you accomplished, such as picking up trash, rehabing fire rings, repair of trail markers, etc.

SPECIFIC ACTIONS RECOMMENDED:

List all work that needs to **be** accomplished by some one else. Specify what tools and personnel will be needed to accomplish the job.

EXAMPLE

Trail sign at the junction of upper twin lakes and echo lakes needs to be tightened. One person with 3/8 or, crescent wrench will be needed.

RESOURCE NOTES:

List all resource information along with your wildlife observations.

EXAMPLE

Rear tracks along the east shore of snag lake. No eagles seen.

VISITOR COMMENTS:

Any *@pertinent" for the improvement of the resource or visitor experience should be noted here. Also list any VISITOR reported wildlife sightings.

NATIONAL PARK SERVICE

SUPPLEMENTARY CASE/INCIDENT RECORD

ORGANIZATION (PARK) NAME	CASE/INCIDENT NUMBER
LOCATION OF INCIDENT	DATE OF INCIDENT MO , DA , YR
NATURE OF INCIDENT	
COMPLAINANT'S NAME	COMPLAINANT'S ADDRESS
RESULTS OF INVESTIGATION	
TRAIL/ROUTE PATROLLED:	
DATE/TIME IN:	VISITOR CONTACTS DAY USERS: OVERNIGHT: STOCK USERS:
TRAIL CONDITIONS:	
CAMPSITE CONDITIONS:	
WORK ACCOMPLISHED:	
SPECIFIC ACTIONS RECOMMENDED:	
RESOURCES NOTES & WILDLIFE OBSERVATIONS:	
JISITOR COMMENTS:	4 3
ENFORCEMENT ACTIONS: Verbal Warning Courtesy Tags Violation Notice	
SERVICE INCIDENTS: Emergency Medical Search/Rescue	
Safety It. SUBMITTED BY (SIGNATURE AND DATE,	APPROVED BY (SIGNATURE AND DATE)



United States Department of the Interior

NATIONAL PARK SERVICE:

Lassen Volcanic National Park Post Office Box 100 Mineral, California 96063-0100

N1623 (LAVO)

July 19, 1994

Memorandum

'TO: All Fark Employees and Volunteers, Lassen Volcanic

From: Superintendent, Lassen Volcanic

Subject: 'Issuance of BackcountryPermits

In the past two seasons we have initiated a new system of issuing backcountry permits. These permits are available at Park Headquarters, the Loomis Museum, and the Almanor Ranger Station at Chester. They are also available by mail or by phone. Self-registration at trailheads is no longer available. This system allows us to contact people before they begin their hikes so they can be better informed of backcountry rules. The drawback is that a number of visitors must backtrack to get a permit. Others opt to go into the backcountry without our knowledge and with no permit and no briefing on backcountry rules. The system is basically successful, but it is time to fine-tune it to allow us to reach more people. A number of comments have been received and considered from employees and visitors alike, and the matter was discussed in the squad meeting on July 18. As a result the system will be retained as is, with the following additions:

- Rackcountry permits will he available at the Southwest Entrance Station during their operating hours. In order not to impede not-ma? traffic flows, hikers-will be asked to park their cars beside the road and obtain their permit from the entrance ranger as workloads permit.
- 2. In a similar manner, the Manzanita Lake Entrance will issue permits during periods when the Loomis Museum is closed.
- 3. Rangers and Interpreters who are working or patrolling at Butte Lake, Juniper Lake or Warner Valley will issue permits during their duty hours. As employees are not always available at these locations, signs will continue to be posted along these entrance roads advising visitors that permits are available at Loomis Museum and the Almanor Ranger Station respectively.

TRAIL MILEAGE AT GREAT SAND DUNES NATIONAL MONUMENT

Mileage is listed from south to north within the monument. All monument trails were measured with a 10' circumference wheel.

- 1) Denton Springs Trail: 0.7 miles (1.13 km)
- 2) Morris Gulch (water tank to east bdy): 0.27 miles (0.44 km)
- 3) Visitor Center to Corral: 0.47 miles (0.76 km)
- Beaver Pond area to jct
 w/ Montville VC Trail: 0.13 miles (0.21 km)
- 5) Picture Point Trail: 0.06 miles (0.1 km)
- 6) <u>Visitor Center to S. Ramada</u>: 0.44 miles (0.71 km)
- 7) <u>Visitor Center to Montville Trailhead:</u> 0.30 miles (0.5 km)
- 8) Mosca Pass Trail: 3.5 miles (5.65 km)
- 9) Montville Nature Trail: 0.48 miles (0.77 km)
- 10) Wellington Ditch Trail: 0.92 miles (1.48 km)
- 11) Pinyon Flats Trail: 0.59 miles (0.95 km)
- 12) Campgrounci (Loop 2) to Dunes: 0.45 miles (0.73 km)
- 13) Campground (Loop 2) to PONR: 1.0 miles' (1.6 km)
- 14) <u>Dunes Overloo</u>k: 0.5 miles (0.81 km)
- 15) Sawmill Canyon Handicamp: 0.1 miles (0.16 km)
- 16) <u>Little Medano Trail</u>: 4.1 miles (6.61 km)
- 17) sand Fit Trail: **0.5** miles (0.8 km)
- 18) Sand Creek Trail: 6.4 miles (10.32 km)
- 19) <u>various Connector trails and Spurs</u>: **0.8** miles **(1.3 km)**
- 20) Dunes Lot to Nigh Dune: 1.22 miles UP (2 km): 1.1 miles down

Total Park Trail Mileage = 18.21 miles*. (29.4 km)
* (doesn't include Mosca Pass or high dune)

WILDERNESS AND BACKCOUNTRY MANAGEMENT PLAN

LASSEN VOLCANIC NATIONAL PARK

June **1994**

Submitted by:	Chief, Resources Management	Date6/3/94
Approved by:	Wilhert E. Bling Superintendent	Date <u>6/3/94</u>

TABLE OF CONTENTS

INTRODUCTION	. 2
VISITOR ACTIVITIES AND USE LIMITS	
Aircraft Boating	3 3 3 3 4 4 4 4 4 j j 5 j j j j
Crosscountry Skiers and Snowshoe Hikers MANAGEMENT OBJECTIVES AND RESPONSIBILITIES	5
Management Responsibility Blue Lake Canyon	- 6 6 6 7 7 7 7 7 8 8 8 8 9 9 9 9

INTRODUCTION

The objective of this plan is to establish current and long-range guidelines for active backcountry management in order to preserve the wilderness and to provide a quality experience to the visitor.

This objective will be accomplished through regulating travel, interpreting use, enforcing regulations and establishing priorities of necessary manpower and building needs to carry out the plan.

This plan is written within the guidelines of the 1964 Wilderness Act and existing legal and administrative policies, including the enabling legislation, management policies of the National Park Service, Code of Federal Regulations, Title 36, an act establishing the Lassen Volcanic wilderness areas (October 19721, Lassen Volcanic's management objectives and as directed by Western Regional Office memorandum, dated December 12, 1972. Following the 1992 use season, the plan will be revised in accordance with NPS 77 Natural Resources Management Guideline.

In the summer season of 1973, procedures were implemented for issuing wilderness permits for overnight stays, group size limitations, stock use, informational and regulatory signing at trailheads, trail improvement, research, restricted camping areas, winter use, interpretation, emergency procedures, firewood utilization, fire management and law enforcement.

It is impossible to control access at all of the points from which hikers enter the backcountry. However, a trailhead quota system may be necessary at the five major trailheads if monitoring and evaluation of use patterns and resource impacts indicate the need.

The plan will be reviewed regularly during the visitor use season and an annual review will be made by the Chief Naturalist, Chief Ranger, Chief of Resource Management, Facility Manager, District Rangers and Roads and Trails Foreman. The Chief of Resource Management will coordinate the review.

VISITOR ACTIVITIES AND USE LIMITS

- <u>Aircraft:</u> The National Park Service will permit the landing and air dropping of materials, supplies or persons only for fire suppression, rescue or other emergency situations, and for those activities necessary to meet the minimum requirements for administering the area for wilderness purposes when there is no acceptable alternative. Under these circumstances, permission may include:
 - 1. Transportation of personnel and supplies into the backcountry for maintenance or other administrative purposes.
 - 2. Removal of seriously injured or ill persons whenever use of ground transportation would aggravate the injury or disease, or when speed of evacuation is important.

Any aircraft wreckage shall be removed by the responsible agency or persons. If necessary, the National Park Service may supply employees and equipment to do this.

- Boating: The use of light boats, rubber rafts and canoes will be permitted in the backcountry. A personal flotation device is required for each occupant. No boat dock or any structure to accommodate boating may be built in the backcountry. The use of motors, including electric, is prohibited.
- Camping: To regulate overnight use, the park is divided, according to major drainage basins, into fourteen (14) Travel Zones. When funding and staffing are available for effective control, a carrying capacity for each zone will be established. In the meantime, camping will be permitted anywhere within a zone except in areas closed to camping and in certain heavy use areas where camping is limited to designated sites.
- <u>Camping</u>, <u>Size Limits</u>: A maximum of ten (10) persons will be allowed at any one site. Larger parties must divide into segments and camp at separate sites, and each camping segment must have a Wilderness Pernit. Camping groups or segments must camp at least 300 feet from other camping groups or segments.
- Camping, Areas Closed: A significant number of areas have been closed to overnight camping due to the area's fragile nature, high visitor USE, past overuse or proximity to auto access. See Appendix B.

Camping is not permitted within 100 feet of the high water nark or in the open areas or grassy margins around lakes and streams or in meadows. Individual camping groups must be separated a minimum of 300 feet from other camping groups. (See also Camping, Size Limits above)

All, or portions, of the backcountry may be closed to camping or public use temporarily because of extreme fire danger or other hazards.

Camping. Length of Stav: Camping is limited to 14 days per year.

<u>Carrying Capacity</u>: Each of the 14 Travel Zones will be assigned a carrying capacity based on past and current user impact on the park's resources. That impact will be assessed by comparing data from wilderness permits with noted changes or damage to the physical and biotic environment. Until such time as sufficient data are available and an analysis is complete, use will be regulated by concentrating control efforts on areas where overuse is already being experienced. Specific controls might include limiting use to designated areas, adjusting party size and length of stay limitations and, when necessary, closure of the area.

Trail use may be controlled in the future by assigning seasonal personnel to regulate use during periods of high visitation.

Weapons: The possession of weapons or other weapons is prohibited.

<u>Open Fires:</u> Open wood fires are not permitted in the backcountry. Chemical fuel stoves may be used at all campsites.

<u>Fishing</u>: Fishing is allowed. A California State fishing license is required. To return fish populations to their natural state, fish stocking in the wilderness was discontinued in the summer of 1974. All regulations governing fishing in the park apply to the backcountry.

Grazing: Grazing of donestic cattle or other stock is not compatible with backcountry/wilderness philosophies. There will be no grazing permits issued. To control trespass grazing, drift fences will be encouraged as a cooperative effort between the Forest Service and its permittees. Patrols by Park Rangers will be intensified, and, where necessary, legal action will be taken to achieve satisfactory control.

Stock Use:

General Public

Due to the small size of the park and generally unacceptable locations for overnight use of riding and pack animals, no overnight stays will be permitted in the backcountry. A wilderness permit is required for day use when stock is used. Private stock owners may stable their animals in corrals at Butte, Juniper or Summit Lakes by contacting Park Headquarters, in advance, to reserve corral space. Pacific Crest Trail users with stock may use the corral near the north park boundary adjacent to the Pacific Crest Trail. Owners must supply their own feed and remove all residual feed when leaving. See Appendix C.

Stock is permitted on officially designated trails and is not to travel crosscountry. Stock is not permitted on the trails around Manzanita and Reflection Lakes, Lassen Peak, Bumpass Hell and Cinder Cone Trails or the trails within the Devils Kitchen and Sulphur Works Thermal Areas.

No more than fifteen (15) animals are permitted to enter the backcountry in a single group. No more than three (3) groups of fifteen (15) animals each or a total combination of forty-five (45) pack or saddle stock are permitted at one time. No more than seven (7) animals will be allowed at the corral at Summit Lake.

Trails will be closed to stock use when conditions warrant due to water accumulations, uncleared down trees and snowdrifts.

Concessioner, Warner Valley

Stock must be confined to the Drakesbad corral when not in use, Concessioner use of stock animals will be regulated as privately owned stock use. However, groups will be limited to ten (10) due to continuous use on local trails. No nore than one group of ten (10) will be permitted at one time. No overnight camping with concession stock is permitted.

Permit System Wilderness permits are required for all overnight stays in the backcountry. A visitor can camp either at a specific site (geographic place name) or a general area (travel zone). Most geographic features have a number of individual sites. Permits can be obtained in advance, by mail or telephone, or obtained in person at Park Headquarters in Mineral June to September, daily 6:00 am to 4:30 pm and October through May B:00 to 4:30 pm Monday through Friday; Manzanita Lake Loomis Visitor Center 9:00 am to 5:00 pm daily, July 1 through September 21 and weekends only June 30 to July 1 and Sept 5 to Sept 26; North District Ranger Station when Loomis is closed: Lassen National Forest Almanor District Office, 8:00 am to 4:30 pm yearlong Monday through Saturday.

<u>Pets</u>: Dogs, cats and other pets are prohibited in the backcountry.

Size of Hiking Groups: Maximum of 20 persons.

Sanitation, Pollution: All litter must be carried out of the backcountry.

Use of soaps and detergents directly in lakes and streams is prohibited.

"Cat-hole" latrines should be dug six to eight inches deep and no closer than 100 feet from the nearest surface water, intermittent stream course, campsite or trail. After use the hole and all waste must be completely covered with soil and tamped.

<u>Swimming:</u> Swimming is permitted in the backcountry.

<u>Winter Use:</u> Backcountry available for winter camping is more extensive than that for summer use. Areas closed to camping during the summer that can be used in winter are shown in Appendix D.

<u>Crosscountry Skiers and Snowshoe Hikers</u>: Overnight use will be by wilderness permit only. A portable stove with a self-contained source

of fuel may be used for cooking or warnth. All litter must be carried out.

Human waste must be buried at least 12 inches in the snow and no closer than 100 feet from any water source or public use facility.

Winter overnight backcountry sites must be at least one mile from any National Park Service public use facility or plowed road.

MANAGEMENT OBJECTIVES AND RESPONSIBILITIES

All divisions will have input and responsibilities regarding resource protection, maintenance and visitor management in the backcountry. Our overall responsibility will be to protect and to maintain the resources and to provide a quality experience for the visitor. A Standard Operating Procedure for backcountry operations has been adopted (Appendix H) and includes approved locations and times where backcountry permits are available, concise procedures for permit issuance and logging of permit data, and backcountry patrol procedures.

Management Responsibility: Responsibility for the management of the backcountry follows the park's organizational lines through each of the respective Division Chiefs. Close cooperation by the Division Chiefs is necessary to effectively carry out the provisions in the plan for. the management of backcountry use. The Chief of Resource Management is the plan coordinator.

Blue Lake Canyon: That portion of the Benner Creek Resources Management Unit north of the crest of Brokeoff Mountain is managed as 'Trail-less Wilderness.' The area has no designated nor maintained trails and access is gained via an unsurfaced remote road or cross-country over the Lassen Peak-Brokeoff Mountain crestline. Hiking or backpacking in this area is recommended for users experienced in orienteering and cross-country travel. Use by beginner or inexperienced backpackers is discouraged. Use by saddle or pack stock is not permitted because of the absence of designated trails.

Trails: Trails are provided in the backcountry to serve as a management tool to help control distribution and intensity of use and to avoid undesirable impacts on the environment. Also, the trails have been located to provide access to a representative sampling of the backcountry. Trail maintenance and construction will be according to standards defined in the NPS Trails Management Handbook. The program will be coordinated with the Chief of Resource Management. The trail work will be done with the minimum tools necessary. The decision to use notorized or mechanized equipment will be made only with prior approval of the Chief to Resource Management and will be limited to specific times, locations and projects. See Use of Motorized Equipment.

In addition to normal maintenance and construction, with the approval of the Chief of Resource Management and the appropriate archaeological authority, trail crews will be responsible for relocating trails where necessary and for obliteration of multiple and other unneeded trails. The restoration of backcountry areas by eliminating camping structures and fire rings will be accomplished as time permits.

- Pacific Crest Trail: This trail bisects the park form north to south. It enters from a point on the north boundary at Badger Flat near Hat Creek and exits on the south boundary below Little Willow Lake for a total of 17.4 miles. Both entrances on the trail are signed as a trailhead. The trail is marked periodically with the official trail tree-markers. Pacific Crest Trail users who camp overnight in the wilderness are required to have a wilderness permit. Lassen Park will honor other agency wilderness permits originating outside the park. Regardless of where the wilderness permit was obtained, park regulations will apply.
- Roads: The existing road to the Hat Creek inholdings will remain until all inholdings are in NPS ownership. Until that time, vehicle access will be limited to inholders.
- Backcountry Facilities: Mount Harkness Lookout and the cabins at Horseshoe and Lower Twin Lakes are the only administrative structures in the wilderness area. The Maintenance Division will be responsible for maintenance of the structures. Temporary trail crew campsites may be established when necessary, and they will contain only minimum facilities, such as toilet and animal-proof storage containers. All facilities will be removed when the site is no longer in use or before the end of the current use season.
- <u>Signing:</u> Yellow trail markers will be used to mark trails in the backcountry only when trails are not well-defined. Situations where trail markers may be used are:
 - 1. Trail definition is poor due to insufficient maintenance or other factors.
 - 2. Where confusion exists at trail junctions, particularly where multiple trails or old abandoned trails exist.
 - 3. Where there is confusion as to where the trail resumes on the other side of a meadow or stream

The approved directional sign will be routed in aluminum with 7/16" high letters and 2" \times 2" metal post. This type of sign will normally be used at trail junctions. The maintenance and placement of backcountry directional signs is the responsibility of the trail crew. Any regulatory signs will be the responsibility of the Protection Division.

<u>Sanitation:</u> All personnel are responsible for the collection and removal of refuse from the backcountry.

It will be park policy to utilize every means available to notify the public of the hazards of drinking unboiled water from lakes and streams.

- <u>Stock Use:</u> National Park Service horses and mules may be used to facilitate better backcountry coverage and to assist in maintenance and supply activities. National Park Service pack and riding stock will be fed in front-country corrals. Corrals located at ranger stations will be maintained by personnel assigned to the area.
- Interpretation: The Chief Park Naturalist will integrate programs of wilderness use and philosophy into evening programs and regularly scheduled interpretive walks. The guided walks and roving assignments in the backcountry interpret the natural and physical features to the visitors and advise them of proper backcountry use. They also inform visitors of backcountry regulations.

Interpretive personnel will keep informed of backcountry conditions, and are responsible for coordinating and distributing the weekly trail condition report in early summer. All personnel issuing wilderness permits will instruct those receiving the permits in proper backcountry use.

<u>Use of Motorized Equipment</u>: The use of motorized and mechanized equipment will be limited as follows:

- 1. Use of motorized equipment or mechanical transport, is not permitted by the public.
- 2. Administrative use of notorized equipment or mechanical transport, including notorboats, aircraft and chain saws, is permitted only as follows:
 - a. In emergency cases involving the health and safety of wilderness users or protection of wilderness values.
 - b. As necessary to meet the minimum needs of management to achieve the purpose of the area. (Specific approval of the Superintendent or the Chief of Resources Management is required for the non-emergency use of motorized or mechanical equipment.) Also see Trails.
- Resource Management: All activities affecting natural resources in the backcountry will be monitored by the Division of Resources Management. The Chief of Resources Management is responsible for making recommendations and any necessary plans for proper use and management of the backcountry. Implementation of resulting plans will be the responsibility of the appropriate park division.
- <u>Fire Management:</u> Fire is recognized as necessary in the maintenance of vegetation and natural biotic systems within the park. To meet the objectives of maintaining these natural systems, the park will utilize prescribed natural and management ignited prescribed fire within Designated Wilderness.

Park management recognizes the inherent public risk associated with the fire management program but will actively mitigate risk through an active public information program and enforce trail closures in areas of active prescribed natural fire. The Fire Management Officer, Chief Park Ranger, appropriate District Ranger and Public Information Officer will coordinate prescribed fire information and closure activities. Specific operational programs and responsibilities are outlined in the park Fire Management Plan.

- <u>Coordination with Forest Service</u>: The Forest Service no longer requires permits for overnight wilderness use, but they will issue permits for trips starting in the Caribou Wilderness and going into the park. A copy of this plan is given to Lassen National Forest Stations issuing wilderness permits.
- Research: Research which is funded by the National Park Service will be management oriented. Natural science research activities will be encouraged within the backcountry.
- <u>Information:</u> The public will be informed of the basic content of this plan. Interested groups and public agencies will be contacted and news articles written for news media for broad public coverage.

APPENDICES

- A Map, Trailheads
- **B** Areas Closed to Camping
- C Saddle and Pack Stock in Lassen Volcanic National Park
- D Issuing Wilderness Permits, Place Name Index
- E Backcountry Trails
- F Trail Inventory
- G Map, Lassen Volcanic Wilderness
- Ii Backcountry Standard Operating Procedures

APPENDIX B AREAS CLOSED TO CAMPING

	REASON FOR	REASON FOR
AREA	CLOSURE	AREA CLOSURE
Anklin Meadow	1	Hot Springs Creek
Bathtub Lake	1- 3	Devil's Kitchen to south
Boiling Springs Lake	1-2-3- 4	boundary
Bumpass Hell		Ink Lake1-2-4
Butte Lake		Inspiration Point1- 3
(except south end)	1	Juni per Lake
Cascade Springs	1	(except South end)
Cinder Cone	1-2-3-4	Kings Creek Falls1-2-3-4
Cliff Lake	1- 2	Kings Creek Meadows
Cold Boiling Lake	1-2-3	Upper and Lower1- 2
Cold Spring	1- 2	Lake Helen1- 3
Crunbaugh Lake	2	Lassen Peak Trail/Summit1-2-3-4
Crags Lake	3	Lily Pond 1 - 2 - 3 - 4
Crystal Lake	1- 3	Little Hot Springs Valley1-2
Dersch Meadows	1- 2	Little Willow Lake 2
Devastated Area		Lost Creek
Devils Kitchen		North of Park Road
Diamond Peak		Lost Creek Diversion Flume. 1
Dream Lake		Mbunt Harkness (summit)3- 4
Drakesbad		Manzani ta Creek
Dwarf Forest		(below bridge in S.29)1- 3
Echo Lake	1 - 3 - 5	Manzani ta Lake
Enerald Lake		Old Boundary Spring1-2-3
Emigrant Pass	1- 3	Reflection Lake
Hat Creek		Shadow Lake 1
East Fork	I	Soda Lake2- 4
West Fork between Park		Summit Lake 1
Road and Main Stem.	1	Sunflower Flat
Cabin Area		Terminal Geyser2- 4
Hat Lake		Terrace Lake1- 3
Henlock Lake	1	Warner Valley1
Hot Rock	I	

In addition to closures listed above for Hat Creek, that area in the Hat Creek basin east of the Hat Lake-Terrace Lake Trail and south of the Park Road is closed to camping because of the very extensive day use activities there.

Except for the upper Hat Creek basin, the areas named above are closed to camping for 1/4 mile in all directions from the feature named. Specific reasons for closure are shown by corresponding number.

1. The area is too close to autombile access or developed areas.

- The area is too fragile to sustain the impact of camping without damage 2. occurring.
- The area receives too high visitor day use to permit camping. Occupied campsites could reduce the amount of day use space or activities possible or seriously interfere with them

 Terrain and/or vegetation barriers do not allow room for suitable
- campsites.
- The area shows signs of deterioration due to overuse. 5.

SADDLE AND PACK STOCK USE IN LASSEN VOLCANIC NATIONAL PARK

Lassen Volcanic National Park offers 106,000 acres of high meadows and valleys, and 150 miles of trails including 17 miles of the Pacific Crest Trail. Over 100 miles of these trails are open to horseback riders. The following are regulations for saddle and pack animals used in all national parks as guidelines for the safety of visitors, riders and horses, and the protection of resources. For the purpose of these regulations the terms stock and pack animals refers to horses, mules, burros and llamas.

- 1. The use of horse or pack animals on trails, route or areas not designated for their use is prohibited. <u>Do not short cut on trails</u>,
- 2. The use of horse or other saddle and pack animals on paved roads is prohibited except where such travel is necessary for entry to or exit from the trails, or is incidental to authorized travel.
- 3. The free-trailing or loose-herding of horses and pack animals on trails is not allowed.
- 4. Horses and pack animals must proceed at a slow walk when passing the immediate vicinity of persons on foot.
- 5. The use of animals other than those usually designated as "pack animals" for purposes of riding or transporting of equipment is prohibited.

At Lassen volcanic National Park <u>these additional rules</u> were established to assure a quality experience for all backcountry visitors and to preserve the park wilderness for others to enjoy.

- 1. A <u>wilderness permit is REQUIRED</u> for all stock use. This permit is needed for all day use and is available at all Ranger Stations and information centers at no charge. We recommend calling Lassen Park Headquarters at 916-595-4444 to obtain a permit prior to your arrival.
- 2. Stock must travel on designated trails, as off-trail tracks are visible in the volcanic soils of the park for many years.
- 3. Due to the small size of the park and generally unacceptable locations for overnight use of riding and pack animals, <u>no overnight stays are</u> permitted in the backcountry.
- 4. Stock is not permitted on the trails around Manzanita and Reflection Lakes, the Lassen Peak Trail, the Bumpass Hell Trail from the parking area to Cold Boiling Lake, the Cinder Cone Trail, or the trails within the Devil's Kitchen and Sulphur works thermal areas.
- 5. Group size will be limited to a maximum of 15 animals.
- 6. Grazing of stock is not permitted.
- 7. <u>Do not tie stock to trees.</u> Animals pawing the soil away at the base of trees disturbs soil, damage roots and debarks trees.

- 8. When leaving stock for short periods of time, they must be tied to a high line near the trail. Tie the line between two trees or rocks and tether the animals to it. the line must be located on a flat, sparsely vegetated site to limit damage to roots and other plants, Do not picket stock in meadows.
- 9. In the backcountry, manure should be scattered and the area smoothed over. This speeds up the decay process and reduces odor and visual impact.
- 10. To protect water quality in the park, stock must be kept at least 100 feet from lakes and streams. In crossing streams, do not stop to water stock. They can be watered by carrying a collapsible pail from the water source to the animal.
- 11. Short-cutting trails and switchbacks is prohibited.
- 12. Trails will be closed to stock use when conditions warrant due to flooding, downed trees and snowdrifts.
- 13. Use processed grain or pellet feed with a nose bag to feed stock while on the trails. To prevent the introduction of non-native plants in the park, hay and seed type feed is not recommended but may be used in the park's corrals. All feed must be removed before leaving.

NOTE: Stock users may tether their animals overnight in stock holding areas at Butte, Summit, or Juniper Lakes by contacting Park Headquarters in advance to reserve tethering space. Ask for the stock tether reservation form

Have a safe and pleasant ride.

APPENDIX D - Page 1 ISSUING WILDERNESS PERMITS

The Wilderness Permit (Backcountry Use Permit Form 10-404) is used to gather statistical data for backcountry/wilderness use. Anyone wishing to stay overnight in the backcountry/wilderness is required to obtain a permit.

A permit will not be issued for day use unless stock is used.

Press firmly to ensure good copies,

- 1. Enter the person's name, street address, city and state. Enter Zip Code in Blocks 1-5. Use 99998 for foreign addresses and 99999 for Canadian addresses.
- 2. To Visit... enter Lassen Park. Leave Blocks 6-9 blank.
- 3. Start and Finish Dates...Give date the party will be entering and leaving the backcountry. Do not show nights spent in campgrounds at Manzanita Lake, Crags, Summit, Southwest, Butte Lake, Warner Valley or Juniper Lake Campgrounds when occurring at the beginning or end of the trip. Leave Blocks 10-17 blank.
- 4. <u>Location of Entry...</u> show the name of the trailhead. We will use the following:

Badger Flat (Hat Lake)
Brokeoff Mountain
Bumpass Hell
Butte Lake
Juniper Lake
Kings Creek Meadows
Kings Creek Picnic Area
Lassen Peak Parking Lot
Manzanita Lake
Leave Blocks 18-20 blank.

Pacific Crest Trail
(Show PCT North or PCT South)
Sulphur Works
Southwest Campground
Summit Lake
Warner Valley
Hat Lake (South of Park Road)
Terrace Lake
Other

- <u>Location of Exit</u>... enter the name of the trailhead as shown in Number 4.

 Leave Blocks 21-23 blank.
- 6. <u>Primary Method of Travel...</u> write in one of the following: Foot (for hikers), Horse (for riding), Ski or Snowshoe. Leave Blocks 24-25 blank.
- 7. <u>Number of People in Group...show actual number in party.</u> Leave Blocks 26-27 blank.
- 8. <u>Number of Pack or Saddle Stock...Show</u> number of animals including horses, mules, burros and other animals used for packing or riding, Leave Blocks 28-29 blank.
- 9. <u>Number of Watercraft.</u>..show number and type of watercraft, i.e., 1 canoe, 1 raft. Leave Blocks 30-31 blank.

APPENDIX 0 - Page 2

10. <u>Campsite Name...</u> show campsite name or travel zone and the nights spent. Nights spent at designated campgrounds are shown only when they occur in the middle of the trip, <u>NOT</u> at the beginning or end. <u>Leave Zone-Site</u> column blank.

The following are geographic place names on which we want to obtain more detailed use data. When a visitor tells you they will be camping at one of them, be sure you enter this name under Campsite Name.

Big Bear Lake Blue Lake Bluff Lake **Butte Lake, South End** Cluster Lakes Conard Lake **Corral Meadow** Crater Butte Crescent Crater Deer Lake Drake Lake East Lake **Emigrant Lake** Feather lake Forest Lake Grassy Swale Hidden Lake

Horseshoe Lake Indian Lake **Island Lake** Jakey Lake Little Bear Lake Ridge Lakes Rainbow Lake Sifford Lakes Silver Lake Snag Lake Soap Lake Swan Lake Teal Lake Twin Lakes Twin Meadows Widow Lake

The Campsite Name for visitors camping in other than these location will be the Travel Zone Name. (See Travel Zone map.)

- 11. Remarks.. enter vehicle make, model, year, color and license number. The two lines just above the Remarks line may be used if more room is needed. Leave Blocks 77-78 blank.
- 12. Date and have visitor sign after directing their attention to the list of backcountry regulations attached to the back of the permit.
- 13. Date and sign permit. Give visitor their copy and ask them to fasten it to their backpack, saddle or tent. Also give them a copy of the park newspaper and a litter bag.

APPENDIX D - Page 3 AREAS CLOSED IN SUMMER WHICH CAN BE USED IN WINTER

Anklin Meadow

Bathtub Lake Butte Lake

Cascade Springs
Cinder Cone
Cliff Lake
Cold Boiling Lake
Cold Spring
Crunbaugh Lake

Dersch Meadows
Devastated Area
Diamond Peak
Drakesbad
Dream Lake
Dwarf Forest

Crystal Lake

Echo Lake Enerald Lake Enigrant Pass

Hat Creek: Cabin Area

East Fork

West Fork between park road and Main Stem

Hat Lake
Hemlock Lake
Hot Rock
Hot Springs Creek
(below Devil's Kitchen)

Inspiration Lake

Juni per Lake

Kings Creek: Picnic Area

Falls

Upper/Lower Meadows

Lake Helen Lassen Peak Lost Creek

Lost Creek Diversion Flume

Manzanita Creek (Sections 20 & 29) Mount Harkness

Old Boundary Spring

Shadow Lake Ski Heil Peak Summit Lake Sunflower Flat

Table Mountain Terrace Lake

Warner Valley

APPENDIX F - Page 1 TRAIL INVENTORY

1.	Lassen Peak	Parking area - Summit	2.5
2.	Bumpass Hell	Trailhead - Cold Boiling Lake	3.1
3.	Bumpass Hell Loop	Within thermal area	. 4
4.	Cold Boiling Lake	Park road - Cold Boiling Lake	
5.	Twin Meadows	Jct. 4 - South Boundary	2::
6.	Mill Creek Falls	Ski area - Cold Boiling Lake	4. 4
7.	Brokeoff Mountain	Trailhead - Summit	3. 7
8.	Ri dge Lakes	Sulphur Works - Ridge Lakes	1.0
9.	Shadow Lake	Park road near Low Gap - park road near Sum	ni t
		Ranger Station	3. 7
10.	Hat Creek	Jct. 9 - Hat Lake	2. 7
11.	Badger Flat	End of Badger Flat	3. 0
12.	PCT North	Jct. 11 - north boundary	. 3
13.	Cluster Lake	Badger Flat - Jct. 14/15	2. 6
14.	Feather Lake	Jct. 13/15 - Jct. 16	2. 0
15.	Bear Lake	Jct. 16 - Cluster Lake	3. 3
16.	Twin Lakes	Summit R. S Emigrant Trail (via east shor	e
		Lower Twin and old road)	7.8
17.	Twin Lake-West Shore	Jct. 16 on both ends of Lower Twin	.5
18.	Sumit Lake Loop	Circles lake	.7
19.	Sumit Creek	Sunnit Lake - Kings Creek	1. 7
20.	Kings Creek	Park Road - south boundary	8. 0
21.	Cascade Foot	Jet. 20 above and below Cascades	. 2
22.	Bench Lake	Jct. 22/25 - Kings Creek Falls	1. 0
23.	Sifford	Jct. 2 0 - Jct 23/25	1. 5
24.	Sifford Lake Spur	Jct. 23 - Sifford Lake	. 4
25.	Flatiron Ridge	Jct.22/23 - Jct 20 near Corral Meadows	2.8
26 .	Warner Valley	Jct. 25 - Warner Valley Campground	1.0
27.	Devils Kitchen	Picnic area (1/4 mi W W Cgrd.) - Devils	
		Kitchen	2. 1
28.	Drake Lake Cutoff	Jct. 27 - Jct 29	. 4
29.	Drake Lake	Jct. 30 - south boundary (via Drake Lake)	3.6
30.	Terminal Geyser	Jet. 27 - south boundary (via Terminal	
	10111111	Geyser)	3. 1
31.	Terminal Gevser Bridle	Jct. 30 at Boiling Springs Lake and near	
02.	10111111	Terninal Geyser	1.5
32.	Boiling Springs Lake		
02.	Circuit	Circles lake	. 6
33.	PCT South	Jct. 30 - South Boundary near Little Willow	
	101 Bouten	Lake	1. 2
34.	Crystal Lake	Juni per Lake Road - Crystal Lake	. 4
35.	Juni per South	Juni per Lake Campground -Jct.37/39	1.8
36.	Harkness East	Juni per Lake Campground - Mr. Harkness L. O.	1. 9
37.	Harkness West	Warner Valley Road -Jct. 36	3. 7
38 .	Juni per West	Jct. 39 - Inholding road	1.1
39.	Indian Lake	Jct. 37/35 - Jct. 5 0	3. 0
40 .	Crater Butte	Horseshoe Lake R. SJct. 41	2. 1
41.	Grassy Swale	Corral Meadows - Crater Butte	3. 1
42.	Grassy Swale Cutoff	Jct. 41 - Jct. 43	1.3
43.	Swan Lake	Twin Lake -Jct. 41	.9
10.	STREET LICENCE		

APPENDIX F - Page 2

44.	Rai nbow Lake	Lower Twin - Jct. 5	3. 6
45 .	Snag West	Jct. 4 4 - Jct. 46/48	3. 5
46.	Snag East	Jct. 55/56 - Jct. 45/48	4.6
47.	Rai nbow- Snag	Rainbow Lake - Snag Lake	1. 9
46.	Grassy Creek	Horseshoe R.SJct. 45/46 at south end of	
	·	Snag Lake	2. 2
49 .	Cameron Meadow	Jct. 48 - Jct. 51	1. 2
50 .	Horseshoe Lake	Juni per Lake R.S Horseshoe Lake R.S.	1.4
51.	Inspiration Point	Juniper Lake R.S Inspiration Point	. 6
52.	Snag- Juni per	Juniper Lake R.S Jct 46	2. 9
53.	Jakey Lake	Jct. 52 - Jakey Lake	1.5
54 .	East Boundary	Jakey Lake - Widow Lake	6. 0
55.	Wi dow Lake	Jct. 46/56 – Widow Lake	1.4
56 .	Butte Shore	Jct. 46/55 - Butte Lake R.S.	2. 2
57.	Emi grant	Butte Lake R.S Badger Flat	6. 6
58.	Prospect Peak	Jet. 57 - Sunnit	2.8
59.	Cinder Cone North	Jct.57 - top of cone	. 3
60.	Cinder Cone South	Jct.44 - top of cone	.6
61.	Bathtub Lakes	Jct. 56 - Bathtub Lakes	. 4
62 .	Manzanita Creek	Park Road (via old cgrd. road) - Crescent	
		Cliffs	3. 9
63.	Chaos Crags	Park Road (via old cgrd. road) - Crags Lake	2. 1
64 .	Manzani ta Lake	Circles Lake	1.6
65.	Reflection Lake	Circles Lake	. 6
66.	Wi dow- Cari bou	Widow Lake to Caribou Wilderness Boundary	1.0

Total 145. 2

LASSEN VOLCANIC NATIONAL PARK BACK COUNTRY PERMIT INFORMATION

APPROVED PERMIT ISSUING LOCATIONS

- A. CHESTER RANGER STATION Monday through Saturday 8 A.M. to 4:30 P.M.
- B. NORTH PARK AREA
 - 1. Loomis Visitor Center Hours 9 to 5

Week ends only
June 30-July 1
September 5 to September 26

<u>Full time</u> July 1 to September 5

- 2. North District Ranger Station When Loomis is closed, if staffed. If not staffed refer to Chester or Mineral Headquarters.
- C. PARK HEADQUARTERS
 June through September
 8 A.M. to 4:30 P.M.

October Through May Monday through Friday 8 A.M. to 4:30 P.M.

Mail in requests should be sent to HEADQUARTERS ONLY. Address: P.O. Box 100, Mineral, Ca. 96063-100 Attn. Back Country Permits

No more than Ten (10) persons on a permit.

No more than Ten (10) persons in a campsite.

No more than Twenty (20) persons **Hiking** in a group.

Large groups must breakup into groups of no larger than Ten (10) persons and be a minimum of Three Hundred (300) feet apart.

ORIGINAL - TOVISITOR
WHITE - TO RESOURCES
PINK - TO DISPATCH

FILLING OUT WILDERNESS PERMITS (not to be used for vehicle campgrounds)

PLEASE PRESS HARD when filling out the form ; make sure ALL COPIES ARE LEGIBLE.

Please print all information in the highlighted areas.

In the zip code block use:

9998 for foreign addresses. 9999 for Canadian adresses.

IMPORTANT:

Indicate start and finish dates , total **number** of days in the backcountry, and the location **of** entrance and exit points. Also list the backcountry campsites and the dates for each campsite, in case au emergency contact needs to be made.

On the last two lines , in the campsite section, list the vehicle year, make, model, color, license number, as well as where it will be parked, in case we need to make an emergency contact.

For entry or exit use only the following TRAIL HEAD NAMES:

BROKEOFF
BUMPASS HELL
BUTTE LAKE
NAT LAKE
JUNIPER LAKE

KINGS CREEK MEADOW KINGS CREEK PICNIC AREA LASSEN PEAK PARKING LOT MANZANITA LAKE PACIFIC CREST TRAIL (indicate north or south) SOUTH WEST CAMPGROUND SUMMIT LAKE SULPHER WORKS WARNER VALLEY

FASTEN THIS TAG TO YOUR PACK, SADDLE, BOAT OR . ENT





When signed, this single-visit реп NAME JOHN BACKPACK		es.				CAMPSITE NAME	ZONE— SITE	NIGHTS
ADDRESS P.O. Box 37	7					6/01 Horseshoe		1
<u>s</u>	CA Z	9 6	10	6	3	6/02&03 Snag Lake		2
cπy Mineral	LA p		 入	ļ,	5	6/04 Horseshoe		11
To visit	$\times \times$		*	X_	\searrow	6/05 OUT		Ţ
	F R MO/	OM O	6	0	1		\./	
Give best estimate of start and finish dates	THRO	OUGH ()	6	0	13 5	1990 Blue Toyota		Ī
		DAY	1.5	16	17	CA 4L06006		'
Location of entry Juniper	Lake		X	X	\sum_{22}	Parked at Juniper Lk		1
Location of exit Juniper	Lake		X	X	X			Ť
Foo	t, Hors	se, Sk	i.	X	X			+-
Primary method of travel1	-10			Ϊ́	Ž	REMARKS		
Number of people in group		<u> </u>			$\stackrel{\sim}{\times}$	DATE (VISTOR'S SIGNATURE	JRE)	1 78
Number of pack or saddle stock _						DATE ISSUING OFFICER'S SIGNAT		
Number of waterrest or other erai	. 1-10)		X	IŽ.	1/1 721 no Yearlessen		1 01

VERY IMPORTANT:

INFORM THE VISITOR THAT WHEN THEY SIGN THE PERMIT, THEY ARE RESPONSIBLE FOR UNDERSTANDING AND ABIDING BY THE REGULATIONS PRINTED ON THE PERMIT.

If a **livestock** permit is requested PLEASE contact PARK DISPATCH as there is a quota on **livestock** allowed in the **back** country.

DO NOT ISSUE ANY PERMITS FOR LIVESTOCK FROM YOUR LOCATION.

BACKCOUNTRY USE REGULATIONS AND INFORMATION FOR LASSEN VOLCANIC NATIONAL PARR.

THE FOLLOWING ARE PROHIBITED BY THE CODE OF FEDERAL REGULATIONS:

NO FIRES -USE ONLY PORTABLE STOVES	36CFR2.13
NO PETS ALLOWED IN THE BACK COUNTRY	36 CFR2.15
NO WEAPONS ALLOWED IN THE PARK	36 CFR 2.4
NO VEHICLES. INCLUDING BICYCLES. ALLOWED	36 CFR4.10
IN THE BACKCOUNTRY.OR ON ANY TRAILS.	36 CFR4.30
DO NOT USE METAL DETECTORS - LEAVE ALL NATURAL	36 CFR 2.1
AND CULTURAL FEATURES IN THE PARK UNDISTURBED.	

YOU MUST FOLLOW THE REGULATIONS FOR LOW IMPACT CAMPING WHICH INCLUDE, BUT ARE NOT LIMITED TO. THE FOLLOWING:

Camp a minimum of 100 feet from the $high\ water\ mark$ of any lake $or\ stream$.

Camp a minimum of 100 feet from any trail.

<u>DO NOT CAMP</u> in the OPEN AREAS OR GRASSY MARGINS AROUND LAKES , STREAMS OR IN THE MEADOWS.

Camp at least 300 feet from ANY OTHER PARTY.

Locate latrines at least 100 feet from ANY WATER SOURCE.

BURY WASTE a minimum of six inches , pack out your toilet paper, DO NOT burn or bury it.

Construct NO improvements such as shelters, drainage ditches around tents, rock walls, bough beds, etc.

Keep all waste products out of the water ways. This includes fish entrails, ALL SOAPS, (EVEN BIODEGRADEABLE SOAPS), detergents, waste water from dishes, etc.

ORGANIZED GROUPS : Only 10 persons per party. Each party must have a back country permit.

EACH PARTY MUST CAMP 300 FEET FROM ANY OTHER PARTY.

LIVESTOCK USERS: Livestock permits are required for all livestock use in the park, THIS INCLUDES DAY USE. Specific regulations for stock use are supplied with the stock use permit. Rules and regulations are printed on the back side of the visitors permit. WHEN THE VISITOR SIGNS THE PERMIT THEY ARE STATING THEY HAVE READ AND UNDERSTAND ALL THE REGULATIONS AND THEY WILL COMPLY WITH ALL THE REGULATIONS.

LASSEN VOLCANIC NATIONAL PARK Ranger Operating Procedure

Visitor and Resource Management Division

TITLE SUBJECT: Backcountry Patrol Procedures

OVERVIEW

Permanent and seasonal protection personnel, as well as N.P.S. non - commissioned personnel along with park volunteers, will conduct backcountry/wilderness patrol operations on an as needed/when available basis. Patrol operations will have three broad objectives;

- (1) Familiarize personnel to backcountry destinations, trail and camp site conditions, and gain an awareness of topography, distances, and the time it takes to reach destinations.
- (2) Establish a uniform presence, check compliance of backcountry regulations, distribute information concerning minimum impact camping, and detect conditions potentially hazardous to visitor safety.
- (3) Gather and record baseline date concerning resource damage and human caused impacts. Take appropriate mitigation measures with the resources you have at hand, i.e.; eradication of illegal fire rings, removal of down trees on trails, etc.

PROCEDURES

Before heading down a trail have a plan of operational objectives you and/or your supervisor want to accomplish. you will be held accountable for the backcountry objectives that you are assigned. A backcountry patrol **record** (amended 344) will be completed after each patrol. The case incident number will be 94-0062 for 1994.

Arrange the timing of your patrol to coincide with the heavy trail use periods (mornings or late evenings). Have an idea of how many overnight users will be in the area you choose as your destination.

This is a partial listing of primary responsibilities you have while on patrol;

- (1) Check all overnight user permits, reinforce minimum camping techniques and basic wilderness regulations.
- (2) Talk to and distribute information to as many day hikers as possible.

- (3) Note trail conditions and take corrective action if warranted and able.
- (4) Note possible SAR problems, and possible helispot locations, radio dead spots, and other emergency related items.
 - (5) Note campsite conditions and eradicate all fire rings.
- (6) Pick up all litter or man made objects/hazards such as wire that serves no purpose.
- (7) Note and report any sign or trail marker that mat cause confusion.
- (8) Clear any downed trees. If it requires tools or additional manpower, record specifically what is needed for future 'patrols.

ENFORCEMENT CONSIDERATIONS

Commissioned rangers will carry minimumdefensive equipment on a duty belt **or** within your patrol pack and citation book. **Take** action on all observable backcountry infractions using officer discretion (verbal/written warnings, citations) and document on back country patrol log. Note if regulatory signs are in place at the trail head before citations are issued.

SUGGESTED EQUIPMENT

- * Map and Compass
- * Basic first aid supplies
- Work gloves
- * Sun screen, Insect repellent
- * Knife, Matches
- * Trash bags
- * Flagging
- Extra food and water
- Flashlight/ head lamp

RADIO PROCEDURES

All employees will carry a radio with them while on a scheduled backcountry patrol. All employees should carry a charged extra battery in addition to their primary battery. The radio should be monitored at all times you are on shift during a scheduled day patrol. During multi-day/overnight patrols the radio can be used in the following manner to conserve batteries.

0800 to 0830 check in with 700 (or designee) for status check

1200 to 1230 monitor for messages

1600 to 1630 monitor for messages

2000 to 2030 check in with 700 (or designee) for status check

BACKCOUNTRY PATROL FORM INSTRUCTIONS

DRAFT

Fill in:

USE CASE NUMBER 94-0062

Trail and route patrolled Number of day users
Date and Time blocks Number of over night users
Type of patrol Number of livestock users

TRAIL CONDITIONS:

Give specific trail conditions using topo map locations, list any fallen trees by location and diameter, so the trail crew will know what tools they will need to remove the hazard.

A Xerox copy of a topo map is a good thing to take with you to record needed work. Indicate on the map what type of work needs to be done, such as hazards, repair work to infrastructure, water bars, erosion control, etc.

CAMPSITE CONDITIONS:

Note any resource damage in the campsite area such as trampled vegetation, social trails, heavily impacted soil, defaced vegetation, fire rings, trash, etc.

Mitigate damages you can, by picking up trash and rehabing **fire** rings.

WORK ACCOMPLISHED:

List all work you accomplished, such as picking up trash, rehabing fire rings, repair of trail markers, etc.

SPECIFIC ACTIONS RECOMMENDED:

List all work that needs to **be** accomplished by some one else. Specify what tools and personnel will be needed to accomplish the job.

EXAMPLE

Trail sign at the junction of upper twin lakes and echo lakes needs to be tightened. One person with 3/8 or, crescent wrench will be needed.

RESOURCE NOTES:

List all resource information along with your wildlife observations.

EXAMPLE

Rear tracks along the east shore of snag lake. No eagles seen.

VISITOR COMMENTS:

Any *@pertinent" for the improvement of the resource or visitor experience should be noted here. Also list any VISITOR reported wildlife sightings.

NATIONAL PARK SERVICE

SUPPLEMENTARY CASE/INCIDENT RECORD

ORGANIZATION (PARK) NAME	CASE/INCIDENT NUMBER
LOCATION OF INCIDENT	DATE OF INCIDENT MO , DA , YR
NATURE OF INCIDENT	
COMPLAINANT'S NAME	COMPLAINANT'S ADDRESS
RESULTS OF INVESTIGATION	
TRAIL/ROUTE PATROLLED:	
DATE/TIME IN:	VISITOR CONTACTS DAY USERS: OVERNIGHT: STOCK USERS:
TRAIL CONDITIONS:	
CAMPSITE CONDITIONS:	
WORK ACCOMPLISHED:	
SPECIFIC ACTIONS RECOMMENDED:	
RESOURCES NOTES & WILDLIFE OBSERVATIONS:	
JISITOR COMMENTS:	4 3
ENFORCEMENT ACTIONS: Verbal Warning Courtesy Tags Violation Notice	
SERVICE INCIDENTS: Emergency Medical Search/Rescue	
Safety It. SUBMITTED BY (SIGNATURE AND DATE,	APPROVED BY (SIGNATURE AND DATE)



United States Department of the Interior

NATIONAL PARK SERVICE:

Lassen Volcanic National Park Post Office Box 100 Mineral, California 96063-0100

N1623 (LAVO)

July 19, 1994

Memorandum

'TO: All Fark Employees and Volunteers, Lassen Volcanic

From: Superintendent, Lassen Volcanic

Subject: 'Issuance of BackcountryPermits

In the past two seasons we have initiated a new system of issuing backcountry permits. These permits are available at Park Headquarters, the Loomis Museum, and the Almanor Ranger Station at Chester. They are also available by mail or by phone. Self-registration at trailheads is no longer available. This system allows us to contact people before they begin their hikes so they can be better informed of backcountry rules. The drawback is that a number of visitors must backtrack to get a permit. Others opt to go into the backcountry without our knowledge and with no permit and no briefing on backcountry rules. The system is basically successful, but it is time to fine-tune it to allow us to reach more people. A number of comments have been received and considered from employees and visitors alike, and the matter was discussed in the squad meeting on July 18. As a result the system will be retained as is, with the following additions:

- Rackcountry permits will he available at the Southwest Entrance Station during their operating hours. In order not to impede not-ma? traffic flows, hikers-will be asked to park their cars beside the road and obtain their permit from the entrance ranger as workloads permit.
- 2. In a similar manner, the Manzanita Lake Entrance will issue permits during periods when the Loomis Museum is closed.
- 3. Rangers and Interpreters who are working or patrolling at Butte Lake, Juniper Lake or Warner Valley will issue permits during their duty hours. As employees are not always available at these locations, signs will continue to be posted along these entrance roads advising visitors that permits are available at Loomis Museum and the Almanor Ranger Station respectively.

TRAIL MILEAGE AT GREAT SAND DUNES NATIONAL MONUMENT

Mileage is listed from south to north within the monument. All monument trails were measured with a 10' circumference wheel.

- 1) Denton Springs Trail: 0.7 miles (1.13 km)
- 2) Morris Gulch (water tank to east bdy): 0.27 miles (0.44 km)
- 3) Visitor Center to Corral: 0.47 miles (0.76 km)
- Beaver Pond area to jct
 w/ Montville VC Trail: 0.13 miles (0.21 km)
- 5) Picture Point Trail: 0.06 miles (0.1 km)
- 6) <u>Visitor Center to S. Ramada</u>: 0.44 miles (0.71 km)
- 7) <u>Visitor Center to Montville Trailhead:</u> 0.30 miles (0.5 km)
- 8) Mosca Pass Trail: 3.5 miles (5.65 km)
- 9) Montville Nature Trail: 0.48 miles (0.77 km)
- 10) Wellington Ditch Trail: 0.92 miles (1.48 km)
- 11) Pinyon Flats Trail: 0.59 miles (0.95 km)
- 12) Campgrounci (Loop 2) to Dunes: 0.45 miles (0.73 km)
- 13) Campground (Loop 2) to PONR: 1.0 miles' (1.6 km)
- 14) <u>Dunes Overloo</u>k: 0.5 miles (0.81 km)
- 15) Sawmill Canyon Handicamp: 0.1 miles (0.16 km)
- 16) <u>Little Medano Trail</u>: 4.1 miles (6.61 km)
- 17) sand Fit Trail: **0.5** miles (0.8 km)
- 18) Sand Creek Trail: 6.4 miles (10.32 km)
- 19) <u>various Connector trails and Spurs</u>: **0.8** miles **(1.3 km)**
- 20) Dunes Lot to Nigh Dune: 1.22 miles UP (2 km): 1.1 miles down

Total Park Trail Mileage = 18.21 miles*. (29.4 km)
* (doesn't include Mosca Pass or high dune)